

Third Quarter 2005 Groundwater Monitoring Report

**Fernbridge Market
Fernbridge, California
Case No. 12345**

Prepared for:

Lindsay Investments



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707-441-8855 • Fax 707-441-8877 • info@shn-eureka.com

Reference: 098076

October 26, 2005

Mr. Bob Stone
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

**Subject: Third Quarter 2005 Groundwater Monitoring Report, Fernbridge Market,
Fernbridge, California; Case No. 12345**

Dear Mr. Stone:

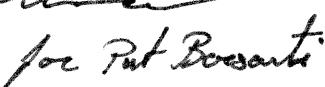
SHN Consulting Engineers & Geologists, Inc. (SHN) is submitting this third quarter 2005 groundwater monitoring report for the Fernbridge Market, located at 623 Fernbridge Drive in Fernbridge, California. SHN performed the quarterly groundwater monitoring and sampling at the site on August 29, 2005, as requested by the Humboldt County Division of Environmental Health.

SHN is requesting a reduction in sampling frequency to twice a year beginning in 2006, with groundwater monitoring events to be performed in February and August.

If you have any questions, please call me at (707) 441-8855.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.


Patrick Barsanti
Project Manager 

PNB/EJN:med

Enclosure: Report
copy w/encl: Lindsay Investments

Reference: 098076

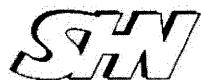
Third Quarter 2005 Groundwater Monitoring Report

**Fernbridge Market
Fernbridge, California
Case No. 12345**

Prepared for:

Lindsay Investments

Prepared by:



Consulting Engineers & Geologists, Inc.
812 W. Wabash Ave.
Eureka, CA 95501-2138
707-441-8855

October 2005

QA/QC:PNB ____

Table of Contents

	Page
1.0	Introduction 1
1.1	Background 1
1.2	Objective 1
1.3	Scope of Work 2
2.0	Field Activities 2
2.1	Monitoring Well Sampling 2
2.2	Laboratory Analysis 2
2.3	Equipment Decontamination Procedures 2
2.4	Investigation-Derived Waste Management 3
3.0	Groundwater Monitoring Results 3
3.1	Hydrogeology 3
3.2	Groundwater Analytical Results 3
3.3	Natural Attenuation Parameters 4
4.0	Discussion and Recommendations 5
5.0	References Cited 5

Appendices

- A. Field Notes
- B. Historic Monitoring Data
- C. Laboratory Analytical Report

List of Illustrations

Figures	Follows Page
1.	Site Location Map 1
2.	Site Plan 1
3.	Groundwater Contour Map, August 29, 2005 3

Tables	Page
1.	Groundwater Elevations, August 29, 2005 3
2.	Groundwater Analytical Results, August 29, 2005 4
3.	DO, DCO ₂ , and ORP Measurement Results, August 29, 2005 4

Abbreviations and Acronyms

<	denotes a value that is "less than" the method detection limit
mV	millivolts
ppm	parts per million
ug/L	micrograms per Liter
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
DCO ₂	Dissolved Carbon Dioxide
DO	Dissolved Oxygen
EC	Electrical Conductivity
EPA	U.S. Environmental Protection Agency
HCDEH	Humboldt County Division of Environmental Health
MTBE	Methyl Tertiary-Butyl Ether
MW-#	Monitoring Well Number
NAVD88	North American Vertical Datum 88
ORP	Oxidation-Reduction Potential
SHN	SHN Consulting Engineers & Geologists, Inc.
TPHG	Total Petroleum Hydrocarbons as Gasoline
UST	Underground Storage Tank

1.0 Introduction

This report presents the activities and results of the third quarter 2005 quarterly groundwater monitoring conducted at the Fernbridge Market site, located at 623 Fernbridge Drive in the community of Fernbridge, California (Figure 1). On August 29, 2005, SHN Consulting Engineers & Geologists, Inc. (SHN) performed the quarterly groundwater monitoring and sampling, as requested by the Humboldt County Division of Environmental Health (HCDEH). SHN is submitting this quarterly groundwater monitoring report on behalf of Lindsay Investments.

1.1 Background

The Fernbridge Market site formerly contained two 650-gallon Underground Storage Tanks (USTs) used for the storage of gasoline (Figure 2). The former USTs and associated dispenser pump were used for fueling vehicles (retail sales). When Lindsay Investments purchased the site, the dispenser pump had been removed, but the USTs remained in place. The ages of the former USTs are not known. The piping located between the USTs and the dispenser pump was buried underground, and the dispenser was located within 15 feet of the former USTs.

On March 13, 1996, the USTs were removed and visible evidence of petroleum contamination was observed in the soil. Based upon observations by the HCDEH and the subsequent laboratory test results, an unauthorized release report was filed. On March 4, 1999, SHN conducted an initial soil and groundwater investigation adjacent to and hydraulically downgradient of the former USTs. Petroleum hydrocarbons were identified in soil and groundwater at the site. Based upon the investigation results, the HCDEH requested that a soil and groundwater investigation be conducted to assess site conditions downgradient of the former USTs.

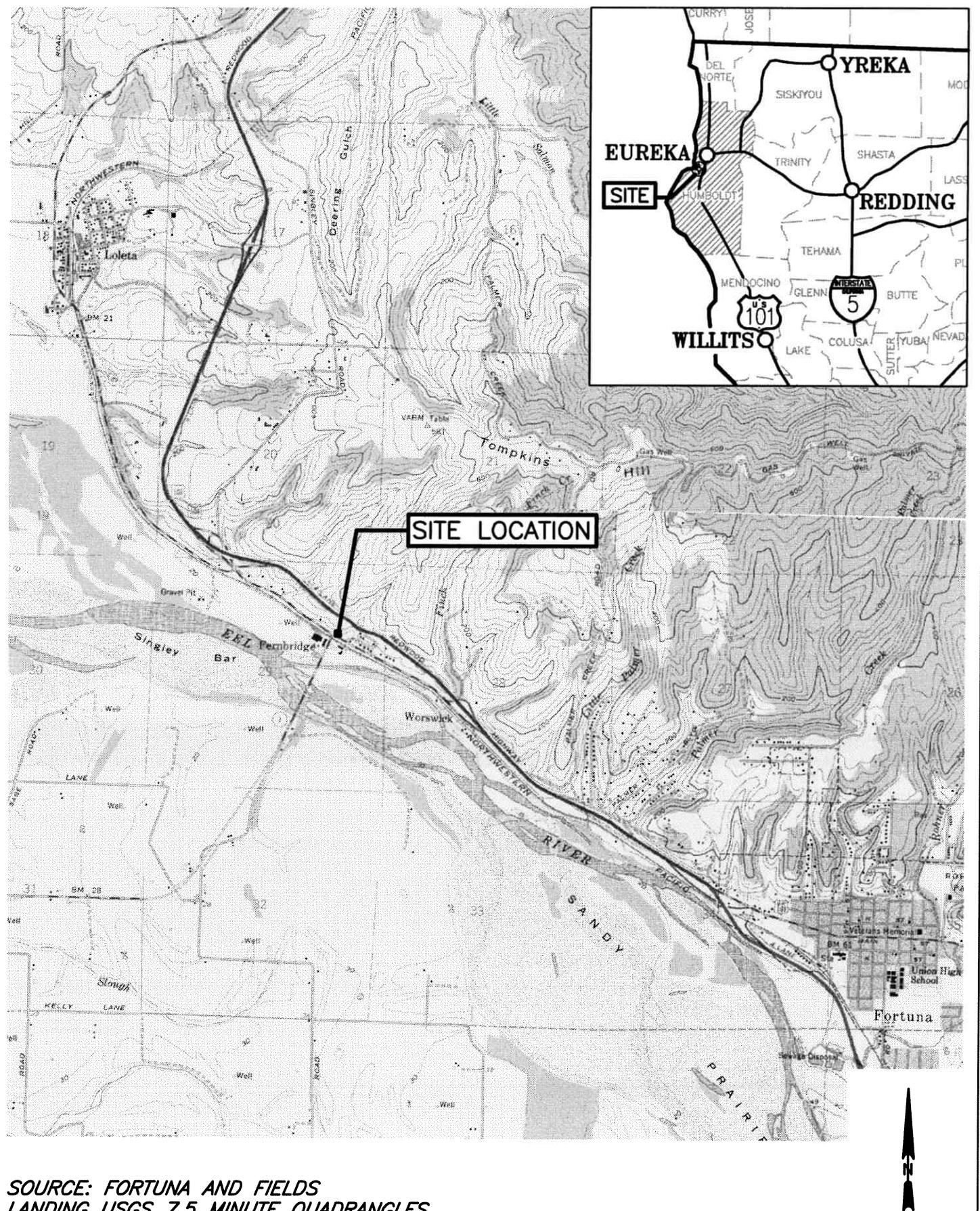
On May 16, 2000, SHN directed the installation of four groundwater monitoring wells at the Fernbridge Market site (MW-1 through MW-4, Figure 2). SHN has performed quarterly groundwater monitoring at the site since June 6, 2000. Subsequent soil and groundwater investigations were conducted at the site in September 2001 and April 2002.

A remedial action was completed at the site in December 2004 to remove contaminant-impacted material. Approximately 621 tons of petroleum hydrocarbon-impacted soil was removed from the site based on the presence of soil contamination identified from previous site investigations (SHN, February 2005).

Two site monitoring wells located within the planned excavation area were properly abandoned by overdrilling, prior to commencement of excavation activities in October 2004 (MW-1 and MW-4, Figure 2). Monitoring well MW-5 was installed at the site in the backfilled portion of the excavation area on February 9, 2005, to replace the abandoned wells.

1.2 Objective

The objective of this groundwater monitoring program is to assess current groundwater conditions beneath the site, and to evaluate the effectiveness of the mitigation efforts completed to date.



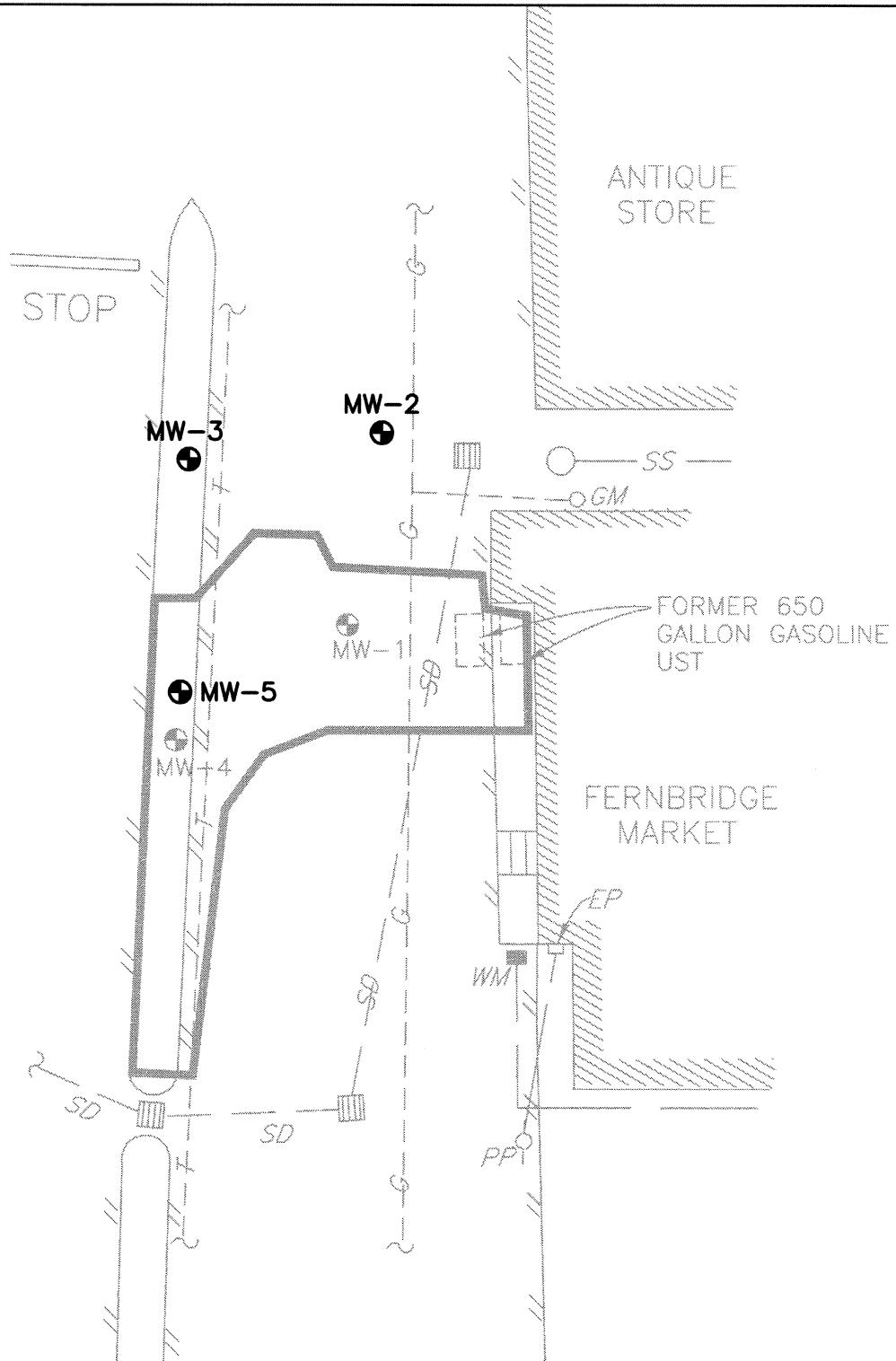
SOURCE: FORTUNA AND FIELDS
LANDING USGS 7.5 MINUTE QUADRANGLES

1" = 3000'

 Consulting Engineers & Geologists, Inc.	Fernbridge Market UST Investigation Fernbridge, California	Site Location Map	
		SHN 098076	
February, 2005	098076-location	Figure 1	

FERNBRIDGE
DRIVE

FERNBRIDGE



EXPLANATION

MONITORING WELL LOCATION AND DESIGNATION

EXCAVATION AREA

FORMER SITE MONITORING WELL

1"=20'

1.3 Scope of Work

This scope of work is intended to meet the objective of this investigation. As part of the investigation, all three groundwater monitoring wells at the site were measured for depth to water and sampled for field parameters and laboratory analysis. All work was conducted in accordance with the approved monitoring plan and site safety plan established for this site. Field notes for third quarter 2005 site activities are included in Appendix A.

2.0 Field Activities

2.1 Monitoring Well Sampling

As part of the monitoring program, monitoring wells MW-2, MW-3, and MW-5 were purged and sampled (Figure 2). Prior to purging, each monitoring well was measured for depth to water, and checked for the presence of floating product (none was observed). Electrical Conductivity (EC), pH, and temperature were monitored periodically during purging activities using portable instrumentation. All wells were also measured for Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), and Dissolved Carbon Dioxide (DCO₂).

A groundwater sample was then collected from each well utilizing a disposable polyethylene bailer. The samples were immediately placed in an ice-filled cooler, and submitted to the laboratory for analyses under appropriate chain-of-custody documentation. Water sampling data sheets are included in Appendix A.

2.2 Laboratory Analysis

Each groundwater sample was analyzed for:

- Total Petroleum Hydrocarbons as Gasoline (TPHG), analyzed in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 8260B;
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), in general accordance with EPA Method No. 8260B; and
- Methyl Tertiary-Butyl Ether (MTBE), in general accordance with EPA Method No. 8260B.

North Coast Laboratories, Ltd., a state-certified analytical laboratory located in Arcata, California, completed the sample analysis.

2.3 Equipment Decontamination Procedures

All monitoring and sampling equipment was cleaned prior to being transported to the site. All smaller equipment was initially washed in a water solution containing Liquinox® cleaner, followed by a distilled water rinse, then by a third distilled water rinse. The groundwater samples were then collected using pre-cleaned, disposable bailers, and transferred into laboratory-supplied containers.

2.4 Investigation-Derived Waste Management

All rinse water used for decontaminating field-sampling equipment and the well purge water was temporarily stored on site in a 50-gallon plastic drum. The water was then transported to SHN's 1,000-gallon purge water storage tank located at 812 West Wabash Avenue in Eureka, California. Approximately 19 gallons of decontamination and purge water from the August 29, 2005, sampling event will be tested and discharged, under permit, to the City of Eureka municipal sewer system. A discharge receipt will be included in the next quarterly monitoring report.

3.0 Groundwater Monitoring Results

3.1 Hydrogeology

SHN measured depth-to-groundwater elevations in the existing monitoring wells during the third quarter 2004 monitoring event (Table 1).

Table 1 Groundwater Elevations, August 29, 2005 Fernbridge Market, Fernbridge, California			
Sample Location	Top of Casing Elevation¹ (feet)	Depth to Water² (feet)	Groundwater Elevation (feet)¹
MW-2	39.47	5.43	34.04
MW-3	39.75	7.21	32.54
MW-5	39.53	4.75	34.78

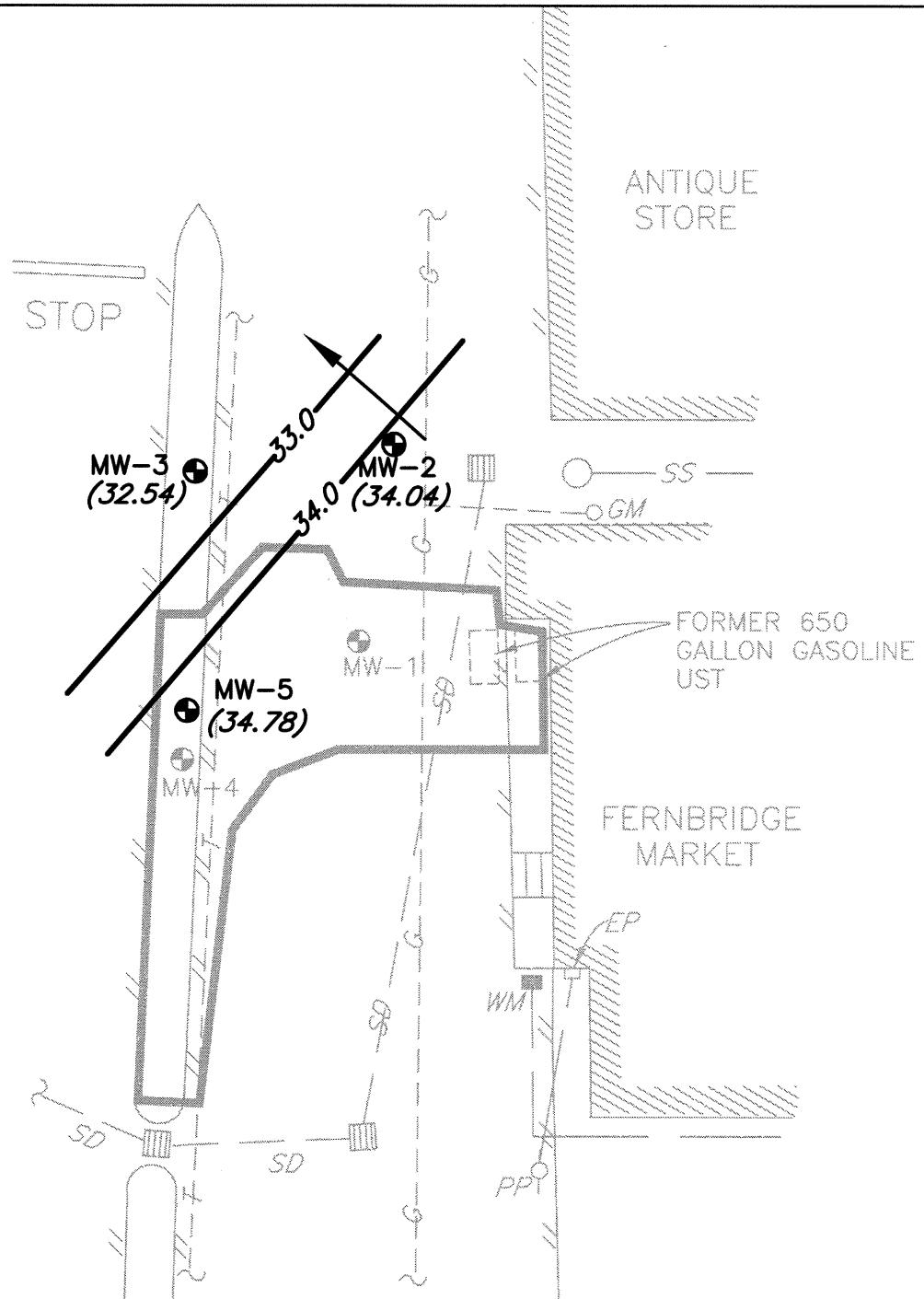
1. Referenced to North American Vertical Datum 88 (NAVD88)
2. Below top of casing

On August 29, 2005, the groundwater flow beneath the Fernbridge Market site was to the southwest, toward the Eel River, with an approximate gradient of 0.127. A groundwater contour map for the August 29, 2005, monitoring event is presented as Figure 3. Historic groundwater elevations are presented in Appendix B, Table B-1.

3.2 Groundwater Analytical Results

The laboratory analytical results for the groundwater samples collected during the third quarter 2005 monitoring event are summarized in Table 2. TPHG was detected in the groundwater sample from well MW-5, at a concentration of 8,200 micrograms per Liter (ug/L). BTEX components were also detected in well MW-5 at concentrations of 1,500 ug/L, 340 ug/L, 430 ug/L, and 600 ug/L, respectively. Monitoring wells MW-2 and MW-3 contained no detectable concentrations of TPHG or BTEX.

FERNBRIDGE DRIVE



EXPLANATION

MW-1 FORMER SITE MONITORING WELL

EXCAVATION AREA

MW-1 MONITORING WELL LOCATION AND DESIGNATION

(35.31) GROUNDWATER ELEVATION

—33.0— GROUNDWATER CONTOUR

← APPROXIMATE GROUNDWATER FLOW DIRECTION

1"=20'

MTBE was detected in the groundwater sample collected from well MW-2 at a concentration of 1.8 ug/L. MTBE was not detected in any other groundwater samples collected during this monitoring event. Historic analytical results are included in Appendix B, Table A-2. The laboratory analytical report and chain-of-custody documentation are included in Appendix C.

Table 2
Groundwater Analytical Results, August 29, 2005
Fernbridge Market, Fernbridge, California
(in ug/L)¹

Sample Location	TPHG ²	Benzene ³	Toluene ³	Ethylbenzene ³	Total Xylenes ³	MTBE ³
MW-2	<50 ⁴	<0.5	<0.5	<0.5	<0.5	1.8
MW-3	<50	<0.5	<0.5	<0.5	<0.5	<1.0
MW-5	8,200 ⁵	1,500	340	430	600	<2.0

1. ug/L: micrograms per Liter
2. Total Petroleum Hydrocarbons as Gasoline (TPHG), analyzed in general accordance with EPA Method No. 8260B.
3. Benzene, Toluene, Ethylbenzene, total Xylenes, and Methyl Tertiary-Butyl Ether (MTBE), analyzed in general accordance with EPA Method No. 8260B.
4. <: Denotes a value that is "less than" the method detection limit.
5. Appears to be similar to gasoline, but certain peak ratios are not that of a fresh gasoline standard. The reported result represents the amount of material in the gasoline range.

Petroleum concentrations identified in well MW-5 have decreased or remained the same for all constituents except ethylbenzene when compared to results for the previous quarterly monitoring event (first quarter 2005).

3.3 Natural Attenuation Parameters

DO, DCO₂, and ORP were measured in monitoring wells MW-2, MW-3, and MW-5, prior to sampling, and are summarized in Table 3.

Table 3
DO, DCO₂, and ORP Measurement Results, August 29, 2005
Fernbridge Market, Fernbridge, California

Sample Location	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵
MW-2	1.12	50	128
MW-3	3.12	50	158
MW-5	2.16	70	-151

1. DO: Dissolved Oxygen, field measured using portable instrumentation
2. ppm: Measurement concentration, in parts per million
3. DCO₂: Dissolved Carbon Dioxide, field measured using a field test kit
4. ORP: Oxidation-Reduction Potential measured using portable instrumentation
5. mV: millivolts

During the August 29, 2005, groundwater monitoring event, DO concentrations ranged from 1.12 parts per million (ppm) in well MW-2 to 3.12 ppm in well MW-3. These DO concentrations appear to be sufficient to support biodegradation. DCO₂ concentrations ranged from 50 ppm in wells MW-2 and MW-3 to 70 ppm in well MW-5. The DCO₂ concentrations measured in the existing wells indicate that biodegradation is occurring. ORP measurements for this quarter ranged from -151 millivolts (mV) in monitoring well MW-5, to 158 mV in monitoring well MW-3, indicating that reducing and oxidizing conditions exist at the Fernbridge Market site. Historical natural attenuation parameter measurements are presented in Appendix B, Table B-3.

4.0 Discussion and Recommendations

The following conclusions are based on the results of the third quarter 2005 groundwater monitoring event:

- Elevated concentrations of TPHG and BTEX constituents were present in the groundwater sample collected from well MW-5 during the August 29, 2005, monitoring event.
- MTBE was detected in the groundwater sample collected from well MW-2 at a concentration of 1.8 ug/L.
- No detectable concentrations of TPHG or BTEX were present in the groundwater samples from wells MW-2 and MW-3 during the third quarter 2005 monitoring event.
- Groundwater flow at the site is to the southwest, with an approximate gradient of 0.127.

Groundwater monitoring well MW-5 is located within the gravel backfilled excavation area of the site. The elevated levels of petroleum constituents present in MW-5 are likely associated with the disturbance of contaminated soil during the excavation process (December 2004). This disturbance resulted in the desorption of petroleum hydrocarbons into the groundwater within the excavated area. The levels of petroleum hydrocarbons observed in this area have decreased when compared to results from the previous two monitoring events (first and second quarters of 2005) and are expected to continue to decrease over time as a result of biodegradation. The next groundwater monitoring event is scheduled for November 2005.

On behalf of Lindsay Investments, SHN is requesting a reduction of groundwater monitoring frequency at the Fernbridge Market site to a biannual basis (February and August). The reduction in sampling frequency would be incorporated following the fourth quarter monitoring event (November 2005). This request is based upon the removal action observations and findings, the decline in groundwater concentrations for petroleum constituents in well MW-5 for three monitoring events, and the absence of constituents of concern in downgradient well MW-3.

5.0 References Cited

SHN Consulting Engineers & Geologists, Inc. (February 25, 2005). *Remedial Action Report of Findings, Fernbridge Market, 623 Fernbridge Drive, Fernbridge, California; Site No. 12345*. Eureka: SHN.

Appendix A
Field Notes



CONSULTING ENGINEERS & GEOLOGISTS, INC.

480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-enqr.com

DAILY FIELD REPORT

JOB NO	098076
Page	1 of 7

PROJECT NAME <i>Fernbridge Market</i>	CLIENT/OWNER <i>Dick Lindsey</i>	DAILY FIELD REPORT SEQUENCE NO <i>1</i>
GENERAL LOCATION OF WORK <i>Fernbridge, CA</i>	OWNER/CLIENT REPRESENTATIVE <i>Dick Lindsey</i>	DATE <i>8-29-05</i>
TYPE OF WORK <i>Quarterly Sampling</i>	WEATHER <i>Foggy to semi-clear</i>	DAY OF WEEK <i>Monday</i>
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	PROJECT ENGINEER/SUPERVISOR <i>Pat Barsanti/Erik Nelson</i>
		TECHNICIAN <i>David R. Paine</i>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

- 0821 arrived at site, removed lids and caps on all 3 wells.
0848 I started taking water level readings decreasing the sandbar after each well by scrubbing it with ligninex then rinsing it with DI water.
0904 I started taking D.O. readings.
0919 I started purging mw-3 with a disposable bailer, purge water was caught in a graduated 13 gal. bucket, well went dry.
1006 I started purging mw-5 with a disposable bailer, purge water was caught in a graduated 1 gal. bucket, well went dry.
1038 I started purging mw-2 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
1130 I sampled mw-3 secured well with cap and lid.
1145 I sampled mw-2, secured well with cap and lid.
1200 I sampled mw-5, secured well with cap and lid.
1213 OFF SITE

Note: All down water and purge water was caught in 5 gal. buckets with lids then transported to SHN's 1,000 gal. PNST located at 812 W. Wabash Avenue Eureka, CA 19 gallons total.

COPY GIVEN TO:

REPORTED BY: *David R. Paine*



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-enr.com

Groundwater Elevations



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-enqr.com

EQUIPMENT CALIBRATION SHEET

Name:	<u>David R. Palmer</u>			
Project Name:	<u>Fernbridge Market</u>			
Reference No.:	<u>098076</u>			
Date:	<u>8-29-05</u>			
Equipment:	<input checked="" type="checkbox"/> pH & EC	<input type="checkbox"/> PID	<input type="checkbox"/> GTCO ₂	<input type="checkbox"/> GTTEL
	<input type="checkbox"/> Turbidity	<input checked="" type="checkbox"/> Other	<u>Dissolved Oxygen Meter YS195</u>	
Description of Calibration Procedure and Results:				
<p><u>pH & EC meter is calibrated using a 2 buffer method with 7.01 and 4.01, the EC (conductivity) is set at 1413 μS.</u></p>				
<p><u>D O meter is self calibrating with the Altimeter set at 0.</u></p>				



Water Sampling Data Sheet

Project Name:	Fernbridge Market	Date/Time:	8-29-05
Project No.:	098076	Sampler Name:	David R. Payne
Location:	Fernbridge, CA	Sample Type:	Ground water
Well #:	MW-3	Weather	Foggy to semi clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

$$\begin{array}{lcl} \text{Total Well Depth} & \text{Initial Depth to} & = \text{Height of Water} \\ (\text{feet}) & \text{Water (feet)} & \text{Column (feet)} \\ \hline 20.05 & - 7.21 & = 12.84 \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array} = 2.09$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0909	3.12						0 gal.	
0919		50	158				0.25 gal.	
0929	↓			455	67.4°	6.22	2.25 gal.	
0934	No Flow			458	65.7°	6.25	4.25 gal.	
0941	flow			446	64.5°	6.36	6.50 gal.	Dry
1032				438	65°	6.44	7 gal.	Dry
1130	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 7.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	3-40ml vials	YES HCl	NCL	8260 1st 4

Well Condition: Good

Remarks:

Recharged to 18.18 at sample time



Water Sampling Data Sheet

Project Name:	Fernbridge Market	Date/Time:	8-29-05
Project No.:	098076	Sampler Name:	David R. Paine
Location:	Fernbridge, CA	Sample Type:	Ground Water
Well #:	MW-2	Weather	Foggy to semi-clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

$$\begin{array}{lcl} \text{Total Well Depth} & \quad \text{Initial Depth to} & = \quad \text{Height of Water} \\ (\text{feet}) & \text{Water (feet)} & \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$

19.65	-	5.43	=	14.22	×	0.163	=	2.32
-------	---	------	---	-------	---	-------	---	------

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0915	1.12						0 gal.	
1038	50	128					0.25 gal.	
1048	↓			499	68.7°	6.23	2.50 gal.	
1053	No Flow			498	67.4°	6.34	4.25 gal.	
1100	then			513	66.5°	6.36	7 gal.	
1105				520	65.8°	6.44	9.50 gal.	
1145	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 9.50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-2	3-4cm vials	YES HCl	NCL	8260 list 4

Well Condition: Good

Remarks:

Recharged to 9.27 at sample time



Water Sampling Data Sheet

Project Name:	Fernbridge Market	Date/Time:	8-29-05
Project No.:	098096	Sampler Name:	David R. Payne
Location:	Fernbridge, CA	Sample Type:	Ground water
Well #:	MW-5	Weather	Foggy to semi-clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

$$\begin{array}{lcl} \text{Total Well Depth} & \quad \text{Initial Depth to} & = \quad \text{Height of Water} \\ (\text{feet}) & \text{Water (feet)} & \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$

14.80 - **4.95** = **10.05** × **0.163** = **0.45**

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1006	2.16	90	-151				0.10 gal.	
1020				477	70°	6.36	0.35 gal. Dry	
1110	↓			486	69.2°	6.42	0.45 gal. Dry	
	No Flow							
	Then							
1200	Sample Time							

Purge Method: Hand Bail

Total Volume Removed: 0.45 (gal)

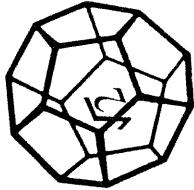
Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-5	3-4cm vials	YES HCl	NCL	B260 list 4

Well Condition: Good

Remarks:

Recharged to 12.65 at sample time



NORTH COAST
LABORATORIES LTD.

55680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

卷之三

PROJECT INFORMATION		
Project Number:	092096	
Project Name:	Foothills Project	
Purchase Order Number:		
ANALYSIS		
CONTAINER PRESERVATIVE		
TAT: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> 5-7 Day <input checked="" type="checkbox"/> STD (2-3 Wk) <input type="checkbox"/> Other: _____		
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES		
REPORTING REQUIREMENTS:		
State Forms	<input type="checkbox"/>	
Preliminary:	<input type="checkbox"/> FAX	<input type="checkbox"/> Verbal
Final Report:	<input type="checkbox"/> FAX	<input type="checkbox"/> Verbal
By: _____ / _____ / _____		
BY: _____ / _____ / _____		
CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L CG; 9—40 ml VOA; 10—125 ml VCA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other		
PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₃ O ₂ C ₂ H ₅ ; g—other		
SAMPLE CONDITION/SPECIAL INSTRUCTIONS		
E1C		
Global ID# T0602300263		
RELINQUISHED BY (Sign & Print)		
RECEIVED BY (Sign)		
DATE/TIME		
8/29/05 11:30 AM		
David B. Paine		
SAMPLE DISPOSAL		
DATE/TIME		
8/29/05 11:33:55		
NCL Disposal of Non-Contaminated		
<input type="checkbox"/> Return <input type="checkbox"/> Pickup		
CHAIN OF CUSTODY SEALS Y/N/NA		
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand		

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other
Shaded boxes indicate data used in the model

Appendix B

Historic Monitoring Data

Table B-1
Historic Groundwater Elevations
Fernbridge Market, Fernbridge, California

Well ID	Date	Top of Casing Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet)
MW-1	06/06/00	39.6	4.23	35.37
	09/18/00		4.69	34.91
	12/18/00		4.75	34.85
	03/02/01		4.57	35.03
	06/04/01		5.23	34.37
	09/05/01		4.65	34.95
	12/05/01		4.66	34.94
	03/05/02		4.43	35.17
	06/04/02		5.01	34.59
	09/05/02		5.56	34.04
	12/26/02		4.42	35.18
	03/07/03		4.42	35.18
	06/10/03		4.51	35.09
	11/20/03		4.58	35.02
	03/30/04		4.06	35.54
Well Destroyed 10/16/04				
MW-2	06/06/00	39.47	4.52	34.95
	09/18/00		4.84	34.63
	12/18/00		4.97	34.5
	03/02/01		4.88	34.59
	06/04/01		5.26	34.21
	09/05/01		5.4	34.07
	12/05/01		5.47	34
	03/05/02		4.64	34.83
	06/04/02		5.11	34.36
	09/05/02		5.25	34.22
	12/26/02		4.47	35
	03/07/03		4.58	34.89
	06/10/03		5.12	34.35
	11/20/03		4.76	34.71
	03/30/04		4.6	34.87
	06/30/04		5.29	34.18
	03/08/05		4.28	35.19
	06/02/05		5.39	34.08
	08/29/05		5.43	34.04

Table B-1
Historic Groundwater Elevations
Fernbridge Market, Fernbridge, California

Well ID	Date	Top of Casing Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet)
MW-3	06/06/00	39.75	5.08	34.67
	09/18/00		5.46	34.29
	12/18/00		6.65	33.1
	03/02/01		6.89	32.86
	06/04/01		7.09	32.66
	09/05/01		7.13	32.62
	12/05/01		6.79	32.96
	03/05/02		6.96	32.79
	06/04/02		7.11	32.64
	09/05/02		7.14	32.61
	12/26/02		6.77	32.98
	03/07/03		7.03	32.72
	06/10/03		7.05	32.7
	11/20/03		6.77	32.98
	03/30/04		6.89	32.86
	06/30/04		6.98	32.77
	03/08/05		6.06	33.69
	06/02/05		7.17	32.58
	08/29/05		7.21	32.54
MW-4	06/06/00	39.73	4.4	35.33
	09/18/00		5.87	33.86
	12/18/00		5.86	33.87
	03/02/01		5.53	34.2
	06/04/01		6.41	33.32
	09/05/01		6.09	33.64
	12/05/01		6.14	33.59
	03/05/02		5.68	34.05
	06/04/02		6.25	33.48
	09/05/02		6.05	33.68
	12/26/02		5.84	33.89
	03/07/03		5.74	33.99
	06/10/03		5.24	34.49
	11/20/03		5.33	34.4
	03/30/04		5.63	34.1
	06/30/04		5.16	34.57
Well Destroyed 10/16/04				
MW-5	03/08/05	39.53	4.15	35.38
	06/02/05		4.54	34.99
	08/29/05		4.75	34.78
1. Referenced to NAVD88		2. Below top of casing		

Table B-2
Historic Groundwater Analytical Data
Fernbridge Market, Fernbridge, California
(in ug/L)¹

Well ID	Date	TPHG ²	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE ³	TBA ⁴	1,2-DCA ⁵
MW-1	06/06/00	990	320	160	11	84	<1.0 ⁶	180	140
	09/18/00	470	160	28	11	33	1.1	120	120
	12/18/00	470	150	36	14	43	1.1	71	120
	03/02/01	880	270	35	21	54	<2.5	99	110
	06/04/01	180	71	6.6	3.7	6.5	1.3	50	91
	09/05/01	420	180	31	14	24.5	1.6	160	NA ⁷
	12/05/01	490	130	31	9.9	23.4	1.4	110	93
	03/05/02	230	160	9.2	6.4	8.4	1.3	82	85
	06/04/02	160	55	7.6	2.6	5.9	1.7	190	81
	09/05/02	120	43	4.9	2.7	1.4	1.4	110	58
	12/26/02	620	250	20	12	18.5	<2.0	130	100
	03/07/03	240	89	1.4	1.1	0.75	<1.0	170	74
	06/10/03	500	260	8.9	3.1	5	1.3	170	<2.0
	11/20/03	400	180	50	9.4	22.2	<3.0	NA	NA
	03/30/04	1,100	330	8	3.5	5.3	<4.0	NA	NA
	06/30/04	520	210	8.3	2.8	4.9	1.7	NA	NA
Well Destroyed 10/16/04									
MW-2	06/06/00	<50	<0.50	<0.50	<0.50	<0.50	3.3	<10	<1.0
	09/18/00	<50	<0.50	<0.50	<0.50	<0.50	4.1	<10	<1.0
	12/18/00	<100	<0.50	<0.50	<0.50	<0.50	5.1	<20	<1.0
	03/02/01	<50	<0.50	<0.50	<0.50	<0.50	3.7	<10	<1.0
	06/04/01	<50	<0.50	<0.50	<0.50	<0.50	4.5	<10	<1.0
	09/05/01	<50	<0.50	<0.50	<0.50	<0.50	3.6	<5.0	NA
	12/05/01	<50	<0.50	<0.50	<0.50	<0.50	4.1	<5.0	<1.0
	03/05/02	<50	<0.50	<0.50	<0.50	<0.50	2.5	<5.0	<1.0
	06/04/02	<50	<0.50	<0.50	<0.50	<0.50	3.3	<5.0	<1.0
	09/05/02	<50	<0.50	<0.50	<0.50	<0.50	2.8	<5.0	<1.0

Table B-2
Historic Groundwater Analytical Data
Fernbridge Market, Fernbridge, California
(in ug/L)¹

Well ID	Date	TPHG ²	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE ³	TBA ⁴	1,2-DCA ⁵
MW-2	12/26/02	<50	<0.50	<0.50	<0.50	<0.50	2.9	<5.0	<1.0
Cont'd	03/07/03	<50	<0.50	<0.50	<0.50	2.7	1.7	<5.0	<1.0
	06/10/03	<50	<0.50	<0.50	<0.50	1.3	<5.0	<1.0	
	11/20/03	<50	<0.50	<0.50	<0.50	3.2	NA	NA	
	03/30/04	<50	<0.50	<0.50	<0.50	2.8	NA	NA	
	06/30/04	<50	<0.50	<0.50	<0.50	2.7	NA	NA	
	03/08/05	<50	<0.50	<0.50	<0.50	1.8	NA	NA	
	06/02/05	<50	<0.50	<0.50	<0.50	2.0	NA	NA	
	08/29/05	<50	<0.50	<0.50	<0.50	1.8	NA	NA	
MW-3	06/06/00	<50	<0.50	<0.50	<0.50	<0.50	12	1.4	
	09/18/00	<50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	
	12/18/00	<50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	
	03/02/01	<50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	
	06/04/01	<50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	
	09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	
	12/05/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	06/04/02	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	09/05/02	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	12/26/02	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	03/07/03	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	06/10/03	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	11/20/03	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<1.0	
	03/30/04	53	<0.50	0.53	<0.50	0.94	<3.0	NA	NA
	06/30/04	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	
	03/08/05	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	
	06/02/05	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	
	08/29/05	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	

Table B-2
Historic Groundwater Analytical Data
Fernbridge Market, Fernbridge, California
 $(\text{in } \mu\text{g/L})^1$

Well ID	Date	TPHG ²	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE ³	TBA ⁴	1,2-DCA ⁵
MW-4	06/06/00	<500	<2.0	59	<2.0	<2.0	<2.0	<100	<2.0
	09/18/00	<1,000	<4.0	230	<4.0	<4.0	<4.0	<200	<10
	12/18/00	260	1.2	94	<1.0	1.1	<1.0	<50	<2.5
	03/02/01	260	0.96	45	<0.50	0.81	<0.50	<10	<1.0
	06/04/01	<250	<1.3	130	<1.3	<1.3	<0.50	<50	<2.5
	09/05/01	<50	<0.50	200	<0.50	<0.50	<0.50	<5.0	NA
	12/05/01	940	<2.5	350	<2.5	3	<2.5	<50	<5.0
	03/05/02	230	2	150	<1.0	1.4	<1.0	<20	<2.0
	06/04/02	340	16	160	1.5	2.9	<1.0	<20	8.3
	09/05/02	<500	94	20	8.4	<2.5	<2.5	<50	<5.0
MW-5	12/26/02	230	17	85	<1.0	1.2	<1.0	<20	<2.0
	03/07/03	<200	7.1	13	<1.0	1.9	<1.0	<20	<2.0
	06/10/03	<1,000	15	7.8	<1.0	<5.0	<5.0	<100	<10
	11/20/03	93	3.1	19	0.53	1.88	<3.0	NA	NA
	03/30/04	600	<25	61	<25	<25	<50	NA	NA
	06/30/04	96	1.7	20	<0.50	0.69	<1.0	NA	NA
	Well Destroyed 10/16/04								
	03/08/05	16,000	1,400	1,200	520	1,740	<3.0	NA	NA
	06/02/05	10,000	1,500	400	330	930	<2.0	NA	NA
	08/29/05	8,200	1,500	340	430	600	<2.0	NA	NA

1 נס/I: מינימאמן Litam

1. $\mu\text{g/L}$: micrograms per Liter

2. TPHG: Total Petroleum Hydrocarbons

3. MTBE: Methyl Tertiary-Butyl

3. TRADE: MERCY; PERVERSE DUTY

J. M. MULALLY

4. IBA: Lertiary-Butyl Alcohol

G:\1998\098076 Fernbridge Mkt\data\HistoricData3rdQtr05\2-Analytical Data

Table B-3
Historic DO, DCO₂, and ORP Measurement Results
Fernbridge Market, Fernbridge, California

Well ID	Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵
MW-1	09/18/00	0.63	120	45
	12/18/00	0.78	60	94
	03/02/01	0.40	90	93
	06/04/01	0.09	70	183
	09/05/01	0.13	60	72
	12/05/01	0.30	70	161
	03/05/02	0.23	60	81
	06/04/02	0.37	120	215
	09/05/02	0.30	120	234
	12/26/02	0.48	50	125
	03/07/03	1.30	95	246
	06/10/03	0.39	65	234
	11/20/03	0.61	80	265
	03/30/04	0.60	140	280
	06/30/04	0.53	90	39
	09/18/00	0.60	120	110
Well Destroyed 10/16/04				
MW-2	12/18/00	0.75	80	95
	03/02/01	0.83	80	62
	06/04/01	0.12	80	159
	09/05/01	0.14	80	161
	12/05/01	0.21	70	213
	03/05/02	1.11	70	68
	06/04/02	0.38	70	208
	09/05/02	0.31	85	223
	12/26/02	0.53	80	145
	03/07/03	3.05	90	240
	06/10/03	0.40	50	224
	11/20/03	0.70	50	259
	03/30/04	0.72	70	290
	06/30/04	0.56	60	118
	03/08/05	1.31	100	82
MW-3	06/02/05	0.86	40	87
	08/29/05	1.12	50	128
	12/18/00	1.86	100	75
	03/02/01	3.53	80	54
	06/04/01	2.20	80	152
	09/05/01	1.81	100	164
	12/05/01	3.76	50	56
	03/05/02	3.85	70	37
	06/04/02	1.95	60	200

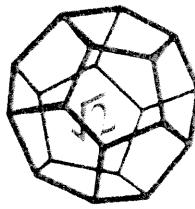
Table B-3
Historic DO, DCO₂, and ORP Measurement Results
Fernbridge Market, Fernbridge, California

Well ID	Date	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵
MW-3 Cont'd	09/05/02	4.11	80	207
	12/26/02	4.27	60	198
	03/07/03	5.69	60	219
	06/10/03	2.71	60	213
	11/20/03	4.23	70	265
	03/30/04	3.28	80	297
	06/30/04	1.40	60	122
	03/08/05	1.76	80	26
	06/02/05	4.15	35	75
	08/29/05	3.12	50	158
MW-4	12/18/00	0.70	200	42
	03/02/01	0.60	250	65
	06/04/01	0.16	200	117
	09/05/01	0.14	240	118
	12/05/01	0.16	210	134
	03/05/02	0.29	220	64
	06/04/02	0.32	220	174
	09/05/02	0.25	220	210
	12/26/02	0.45	180	145
	03/07/03	0.52	130	244
	06/10/03	0.31	70	251
	11/20/03	0.58	190	240
	03/30/04	0.97	140	283
	06/30/04	0.54	140	-102
Well Destroyed 10/16/04				
MW-5	03/08/05	2.75	100	65
	06/02/05	4.85	80	121
	08/29/05	2.16	70	-151

1. DO: Dissolved Oxygen, field measured using portable instrumentation
 2. ppm: Measured concentration, in parts per million
 3. DCO₂: Dissolved Carbon Dioxide, field measured using a field test kit
 4. ORP: Oxidation-Reduction Potential measured using portable instrumentation
 5. mV: millivolts

Appendix C

Laboratory Analytical Report



NORTH COAST
LABORATORIES LTD.

REC'D SEP 13 2005

September 08, 2005

Pvt. cust. paying on pickup

,

Attn: Dick Lindsay-Lindsay Investments

RE: 098076, Fernbridge Market

Order No.: 0508767

Invoice No.: 52647

PO No.:

ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	MW-3
02A	MW-2
03A	MW-5

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

North Coast Laboratories, Ltd.

Date: 08-Sep-05

CLIENT: Pvt. cust. paying on pickup
Project: 098076, Fernbridge Market
Lab Order: 0508767

CASE NARRATIVE

Gasoline Components/Additives:

Sample MW-5 appears to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported result represents the amount of material in the gasoline range.

BTEX:

Some reporting limits were raised for sample MW-5 due to matrix interference.

Date: 08-Sep-05
WorkOrder: 0508767

ANALYTICAL REPORT

Client Sample ID: MW-3
Lab ID: 0508767-01A

Received: 8/29/05

Collected: 8/29/05 11:30

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		9/6/05
Benzene	ND	0.50	µg/L	1.0		9/6/05
Toluene	ND	0.50	µg/L	1.0		9/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		9/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		9/6/05
c-Xylene	ND	0.50	µg/L	1.0		9/6/05
Surrogate: 1,4-Dichlorobenzene-d4	104	80.8-139	% Rec	1.0		9/6/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		9/6/05

Client Sample ID: MW-2

Received: 8/29/05

Collected: 8/29/05 11:45

Lab ID: 0508767-02A

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	1.8	1.0	µg/L	1.0		9/6/05
Benzene	ND	0.50	µg/L	1.0		9/6/05
Toluene	ND	0.50	µg/L	1.0		9/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		9/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		9/6/05
c-Xylene	ND	0.50	µg/L	1.0		9/6/05
Surrogate: 1,4-Dichlorobenzene-d4	105	80.8-139	% Rec	1.0		9/6/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		9/6/05

Date: 08-Sep-05
WorkOrder: 0508767

ANALYTICAL REPORT

Client Sample ID: MW-5
Lab ID: 0508767-03A

Received: 8/29/05

Collected: 8/29/05 12:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	2.0	µg/L	1.0		9/7/05
Benzene	1,500	25	µg/L	50		9/7/05
Toluene	340	25	µg/L	50		9/7/05
Ethylbenzene	430	25	µg/L	50		9/7/05
m,p-Xylene	500	25	µg/L	50		9/7/05
o-Xylene	100	25	µg/L	50		9/7/05
Surrogate: 1,4-Dichlorobenzene-d4	105	80.8-139	% Rec	1.0		9/7/05

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	8,200	2,500	µg/L	50		9/7/05

North Coast Laboratories, Ltd.

Date: 08-Sep-05

CLIENT: Pvt cust paying on pickup**Work Order:** 0508767**Project:** 098076, Fernbridge Market**QC SUMMARY REPORT**

Laboratory Control Spike

Sample ID:	LCS-05562	Batch ID:	R36788	Test Code:	8260OXYW	Units:	µg/L	Analysis Date: 9/6/05 3:36:00 AM			Prep Date:	
Client ID:		Run ID:		ORGCMSS3_050906B				SeqNo:	529257			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	19.85	1.0	20.0	0	99.3%	80	120	0	0	0	20	S
Benzene	21.27	0.50	20.0	0	106%	78	117	0	0	0	20	S
Toluene	20.62	0.50	20.0	0	103%	80	120	0	0	0	20	S
Ethylbenzene	19.90	0.50	20.0	0	99.5%	80	120	0	0	0	20	S
m,p-Xylene	40.73	0.50	40.0	0	102%	80	120	0	0	0	20	S
o,p-Xylene	18.31	0.50	20.0	0	91.5%	80	120	0	0	0	20	S
1,4-Dichlorobenzene-d4	1.10	0.10	1.00	0	110%	81	139	0	0	0	20	S
Sample ID:	LCSD-05562	Batch ID:	R36788	Test Code:	8260OXYW	Units:	µg/L	Analysis Date: 9/6/05 4:01:00 AM			Prep Date:	
Client ID:		Run ID:		ORGCMSS3_050906B				SeqNo:	529258			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	19.58	1.0	20.0	0	97.9%	80	120	19.8	1.37%	20	20	S
Benzene	20.92	0.50	20.0	0	105%	78	117	21.3	1.66%	20	20	S
Toluene	20.52	0.50	20.0	0	103%	80	120	20.6	0.464%	20	20	S
Ethylbenzene	19.81	0.50	20.0	0	99.1%	80	120	19.9	0.444%	20	20	S
m,p-Xylene	40.30	0.50	40.0	0	101%	80	120	40.7	1.06%	20	20	S
o-Xylene	18.14	0.50	20.0	0	90.7%	80	120	18.3	0.926%	20	20	S
1,4-Dichlorobenzene-d4	1.09	0.10	1.00	0	109%	81	139	1.10	1.11%	20	20	S
Sample ID:	LCSD-05563	Batch ID:	R36786	Test Code:	GASW-MS	Units:	µg/L	Analysis Date: 9/6/05 5:18:00 AM			Prep Date:	
Client ID:		Run ID:		ORGCMSS3_050906A				SeqNo:	529202			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gasoline	929.3	50	1,000	0	92.9%	80	120	0	0	0	0	R

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pvt. cust. paying on pickup
Work Order: 0508767
Project: 098076, Fernbridge Market

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: LCSD-05563	Batch ID: R36786	Test Code: GASW-MS	Units: µg/l.	Analysis Date: 9/6/05 5:43:00 AM				Prep Date:			
Client ID:	Run ID:	ORGCMSS3_050906A		SeqNo:	529203						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
TPHC Gasoline	921.4	50	1,000	0	92.1%	80	120	929	0.855%	20	

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

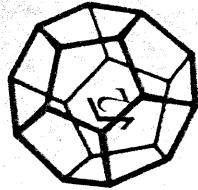
Date: 08-Sep-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0508767
Project: 098076, Fernbridge Market

QC SUMMARY REPORT

Method Blank

Sample ID: MB 090605	Batch ID: R36788	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 9/6/05 7:00:00 AM				Prep Date:
Client ID:		Run ID: ORGCMSS3_050906B		SeqNo:	529260			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val
Methyl tert-butyl ether (MTBE)	ND	1.0						
Benzene	ND	0.50						
Toluene	ND	0.50						
Ethylbenzene	0.08049	0.50						
m,p-Xylene	0.1793	0.50						
o-Xylene	ND	0.50						
Zo-Xylene	1.03	0.10	1.00	0	103%	81	139	0
Sample ID: MB 090605	Batch ID: R36786	Test Code: GASW-MS	Units: µg/L	Analysis Date: 9/6/05 7:00:00 AM				Prep Date:
Client ID:		Run ID: ORGCMSS3_050906A		SeqNo:	529205			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val
ZoTPHC Gasoline	17.22	50						



NORTH COAST
LABORATORIES LTD.

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Attention: Dick Lindsey
Results & Invoice to: Lindsey Investments
P. O. Box 914
Address: Fremont Bridge CA 95536-0914
Phone: 786-4556
Copies of Report to: Sgt. Eric Hirschman
312 W. Webster Ave., Fresno, CA 93301-2130
Sampler (Sign & Print): Ed J. P. Lewis, David R. Lewis

PROJECT INFORMATION

Project Number: 098076
Project Name: Fender's Market
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*
	MNU - 3	8/29/05	11:30	GND
	MNU - 2		11:45	
	MNU - 5		12:00	

CONTAINER PRESERVATIVE

ANALYSIS

LABORATORY NUMBER:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES TAT: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> 5-7 Day <input checked="" type="checkbox"/> STD (2-3 Wk) <input type="checkbox"/> Other: _____	REPORTING REQUIREMENTS: Preliminary: <input type="checkbox"/> FAX <input type="checkbox"/> Verbal Final Report: <input type="checkbox"/> FAX <input type="checkbox"/> Verbal State Forms: <input type="checkbox"/> By: _____ / _____ / _____
--	---

CONTAINER CODES: 1— $\frac{1}{2}$ gal. pl; 2—250 ml pl;
 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
 d—Na₂S₂O₃; e—NaOH; f—C₂H₅O₂Cl; g—other

SAMPLE DISPOSAL		CHAIN OF CUSTODY SEALS Y/N/NA		
Y/NCL Disposal of Non-Contaminated		<input type="checkbox"/> Pickup <input type="checkbox"/> Return		
		SHIPPED VIA:	UPS	Air-Ex
		Fed-Ex	Bus	Hand

$S = S_{\text{Soil}}$: 0=Other

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT